AM-FM STEREO RECEIVER

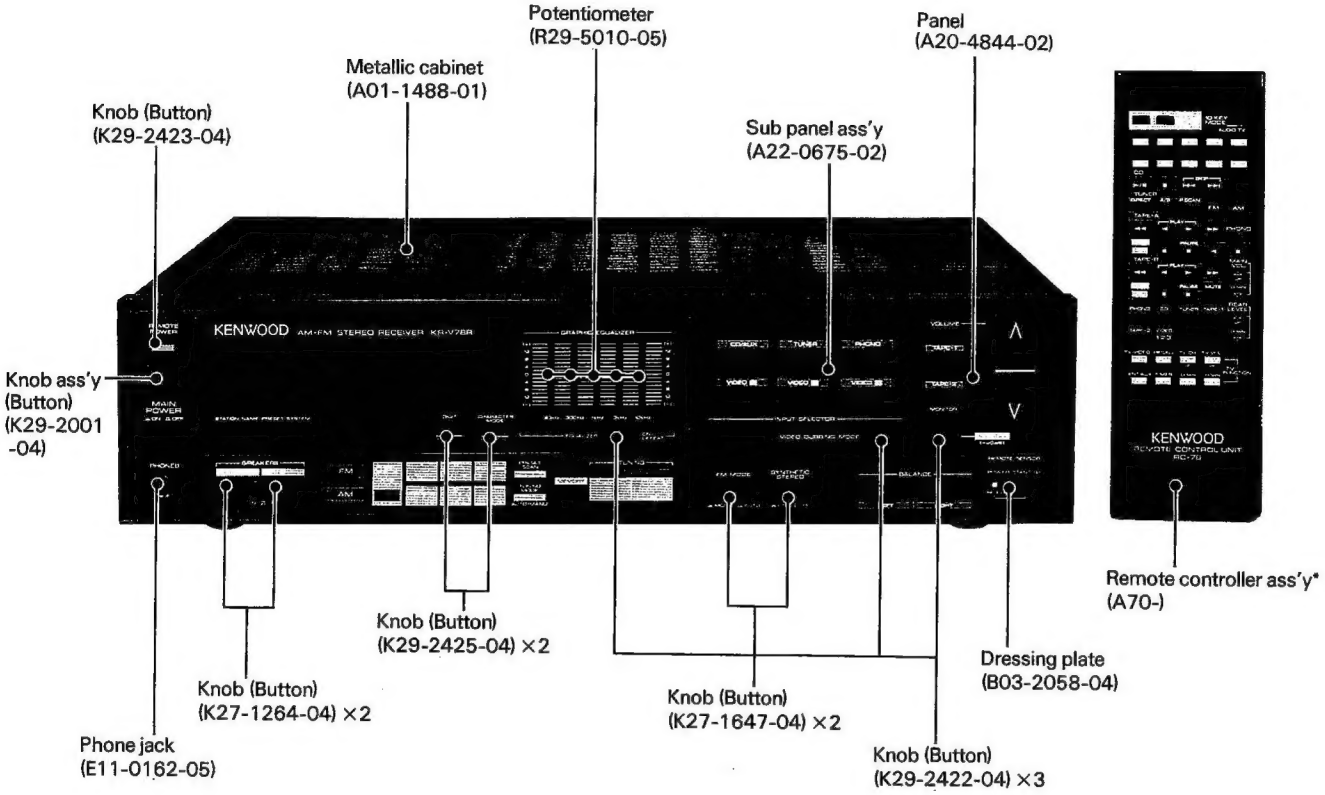
KR-V76R

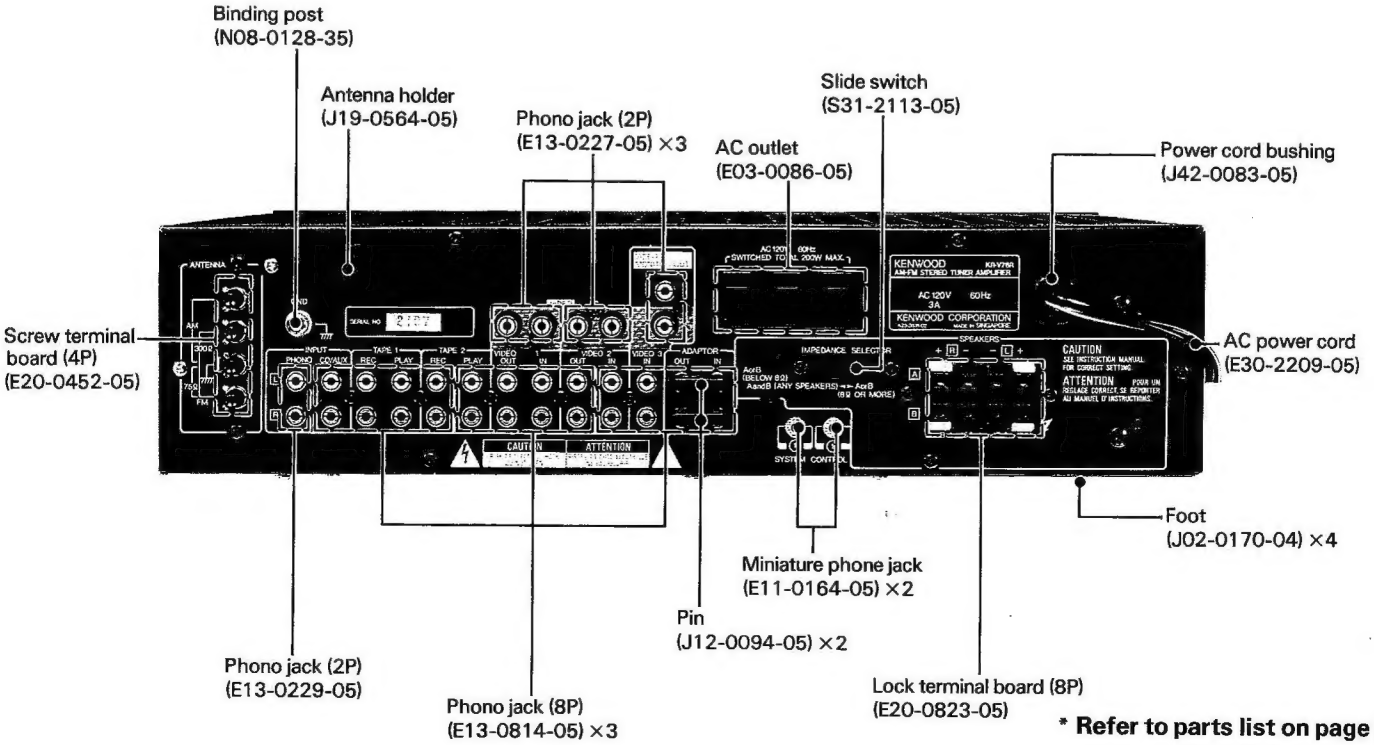
SERVICE MANUAL

KENWOOD

KENWOOD CORPORATION

B51-3210-00(B)1202





* **Refer to parts list on page 26.**

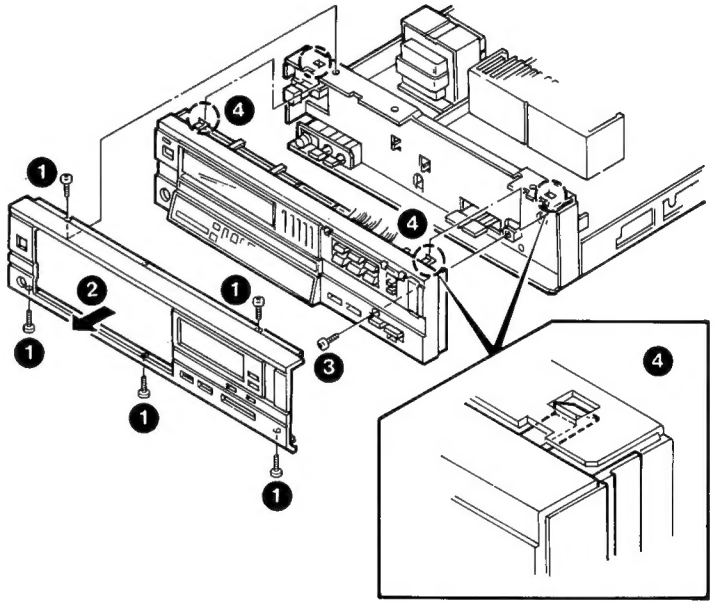
KR-V76R

CONTENTS

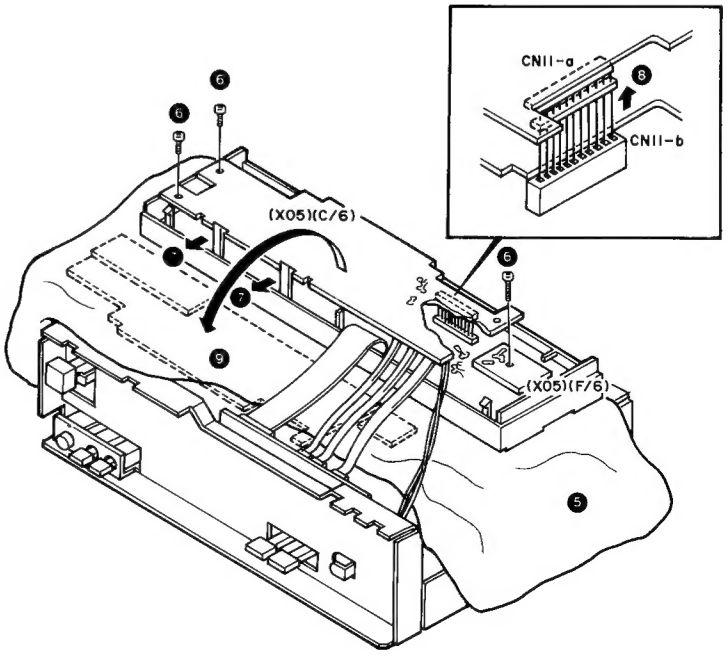
DISASSEMBLY FOR REPAIR

(Remove the metallic cabinet before performing the following operations.)

1. Remove the 6 screws fixing the front panel to the sub panel (❶).
2. Pull the front panel toward to arrow direction (❷).
3. Remove the screw fixing the sub panel to the frame (❸).
4. Disengage the sub panel from the 2 claws carefully (❹).

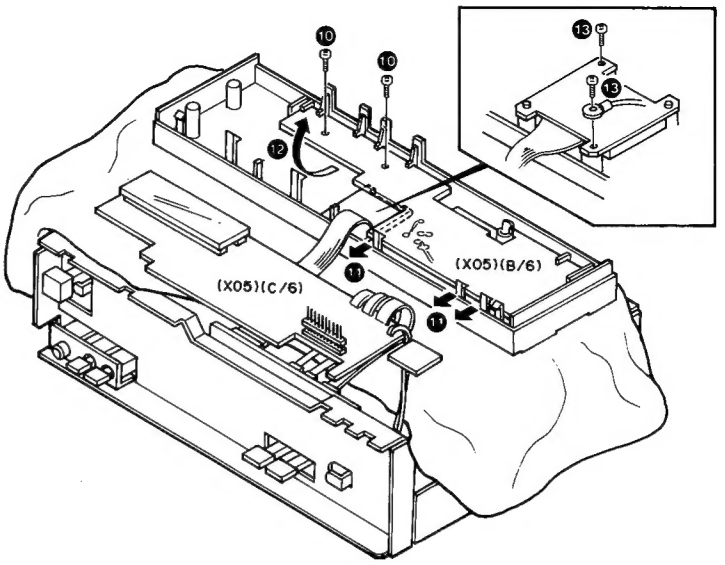


5. Place a cloth, or something equivalent to avoid damages to the front of the front panel (❺).
6. Remove the 3 screws fixing the Tuner Unit (X05-3370-10)(C/6, F/6) to the sub panel (❻).
7. Disengage the 2 claws fixing the Tuner Unit (X05-)(C/6)(❼).
8. Disconnect the connector (CN11-a,b) which have been connected to the Audio Unit (X05-)(C/6) and (X05-)(B/6)(❽).
9. Turn the Audio Unit (X05-)(C/6) and place this unit in the direction of the arrow (❾).

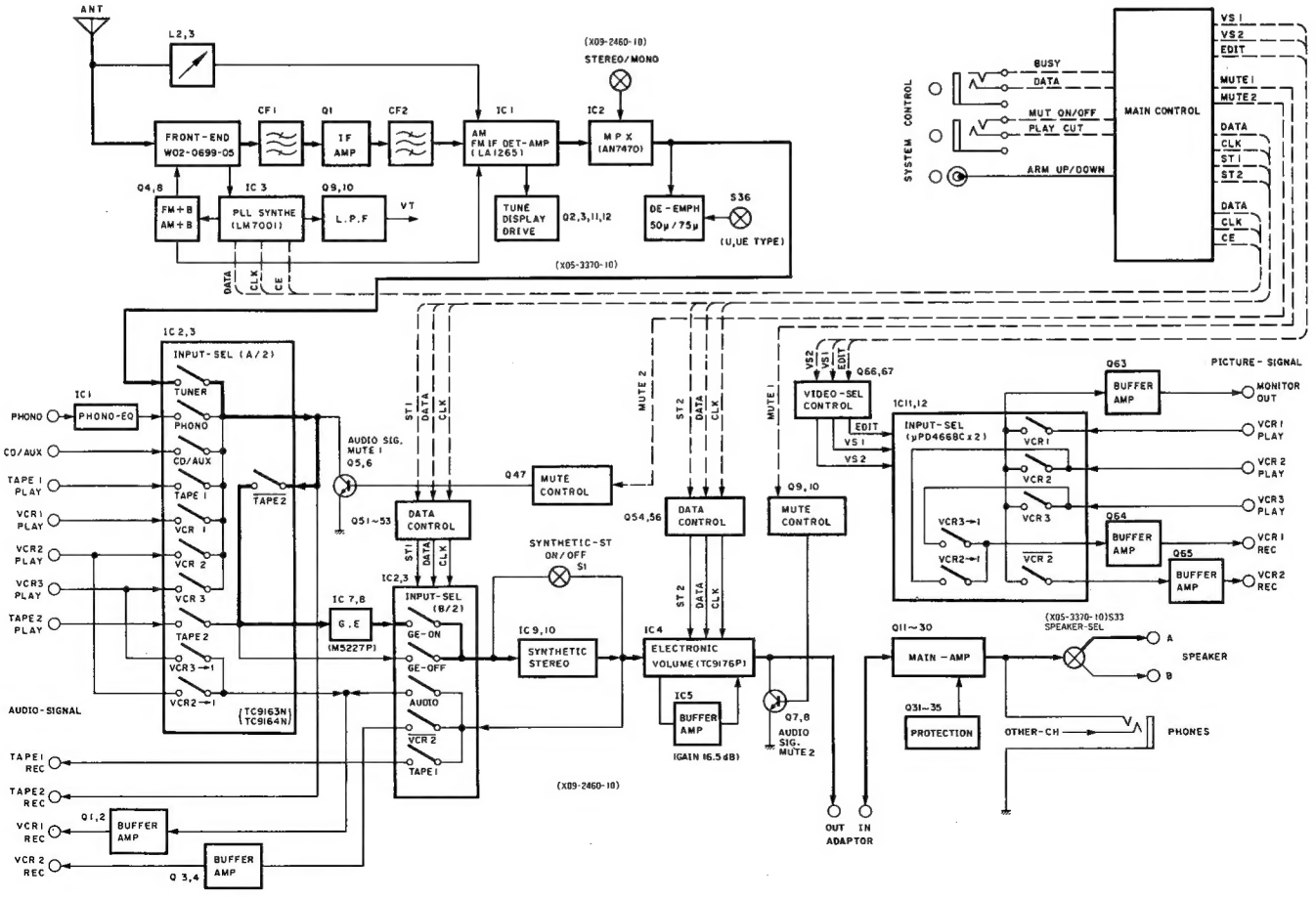


DISASSEMBLY FOR REPAIR / BLOCK DIAGRAM

10. Remove the 2 screws fixing the Tuner Unit (X05-)(B/6) to the sub panel (⑩).
11. Disengage the 3 claws fixing the Tuner Unit (X05-)(B/6)(⑪).
12. Remove the Audio Unit (X05-)(B/6) in the direction of the arrow (⑫).
13. Remove the 2 screws fixing the potentiometer (Graphic Eq.) to the sub panel (⑬).



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Description of components

AUDIO UNIT (X09-2460-10)

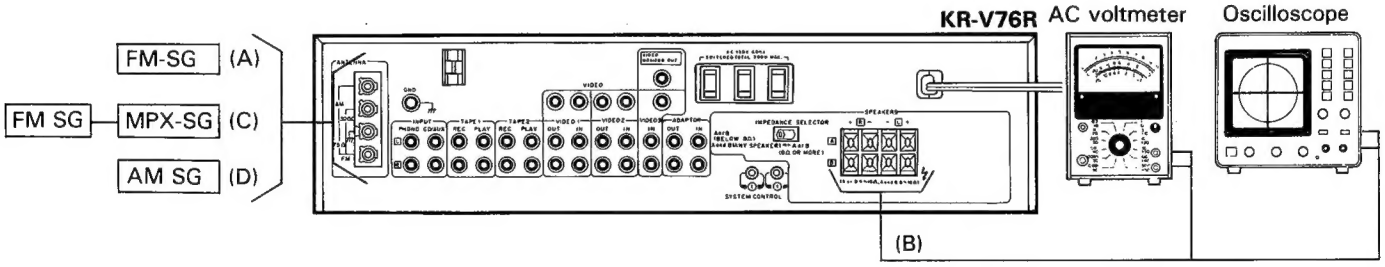
<table>
<tr><th>Components</th><th>Application/Function</th><th>Operation/Condition/Compatibility</th></tr>
<tr><td>IC1</td><td>Phono EQ AMP</td><td>MM cartridge</td></tr>
<tr><td>IC2</td><td>Input selecting</td><td>selector Phono/CD/TAPE1/TAPE2</td></tr>
<tr><td>IC3</td><td>Input selecting</td><td>selector audio sig. of VIDEO 1/2/3</td></tr>
<tr><td>IC4</td><td>Electronic Volume</td><td></td></tr>
<tr><td>IC5</td><td>Buffer AMP</td><td>(Voltage gain: 16 dB)</td></tr>
<tr><td>IC7, 8</td><td>Graphic EQ</td><td>5 freq. points</td></tr>
<tr><td>IC9, 10</td><td>Synthetic Stereo</td><td>Buffer AMP/3 stage B.P.F.</td></tr>
<tr><td>IC11, 12</td><td>Picture sig. selecting</td><td>VIDEO 1/2/3</td></tr>
<tr><td>Q1～4</td><td>Buffer AMP (audio sig.)</td><td>VIDEO 1/2 (emitter follower)</td></tr>
<tr><td>Q5, 6</td><td>Audio sig. mute 1 (TAPE REC)</td><td>MUTE-ON at Q47 ON.</td></tr>
<tr><td>Q7, 8</td><td>Audio sig. mute 2 (Electronic VOL out)</td><td>MUTE-ON at Q9 ON.</td></tr>
<tr><td>Q9, 10</td><td>Audio sig. mute control of Q7, 8</td><td></td></tr>
<tr><td>Q11～14</td><td>Power AMP (1st diff AMP)</td><td></td></tr>
<tr><td>Q15～18</td><td>Power AMP (2nd diff AMP)</td><td></td></tr>
<tr><td>Q19, 20</td><td>Power AMP
(Current mirror configuration in A-class stage)</td><td></td></tr>
<tr><td>Q21, 22</td><td>Power AMP (Bias)</td><td></td></tr>
<tr><td>Q23～26</td><td>Power AMN (driver stage)</td><td></td></tr>
<tr><td>Q27～30</td><td>Power AM (Final stage)</td><td></td></tr>
<tr><td>Q31～33</td><td>Current limitter</td><td>Q31 (Q32) detects terminal voltage of emitter resistor CP1 (CP2). When SP terminal is shorted to ground, Q31 (Q32) becomes to ON and Q33 goes to ON. So that regurator circuit (Q34, 35) does not function.</td></tr>
<tr><td>Q34, 35</td><td>Power supply to 1st stage of Power AMP</td><td>Q35 works as ripple filter when Q34 is OFF.</td></tr>
<tr><td>Q36</td><td>Re-set of IC 11 (—picture sig. selecting)</td><td>Q36 cuts VIDEO 3 selecting signal to ICII, when POWER SW is ON/OFF.</td></tr>
<tr><td>Q37</td><td>—30 V AVR</td><td>Display</td></tr>
<tr><td>Q38～40</td><td>+14 V AVR</td><td></td></tr>
<tr><td>Q41～44</td><td>—14 V AVR</td><td><table><tr><td>Status</td><td>Q45</td><td>Q46</td></tr><tr><td>POWER ON</td><td>off</td><td>on</td></tr><tr><td>POWER OFF</td><td>on</td><td>off</td></tr></table></td></tr>
<tr><td>Q45, 46</td><td>+5 V AVR (for microprocessor)</td><td></td></tr>
<tr><td>Q47</td><td>Audio signal mute 1</td><td></td></tr>
<tr><td>Q51</td><td>store sig. control (IC2, 3)</td><td></td></tr>
<tr><td>Q52</td><td>data sig. control (IC2, 3)</td><td></td></tr>
<tr><td>Q53</td><td>clock sig. control (IC2, 3)</td><td></td></tr>
<tr><td>Q54</td><td>store sig. control (IC4)</td><td></td></tr>
<tr><td>Q55</td><td>store sig. control (IC4)</td><td></td></tr>
<tr><td>Q56</td><td>clock sig. control (IC4)</td><td></td></tr>
<tr><td>Q57～58</td><td>Relay (KI) control</td><td></td></tr>
<tr><td>Q60～62</td><td>+5 V AVR</td><td>Fip
<table><tr><td>Status</td><td>Q60</td><td>Q61</td><td>Q62</td></tr><tr><td>POWER ON</td><td>on</td><td>off</td><td>working</td></tr><tr><td>POWER OFF</td><td>off</td><td>on</td><td>off</td></tr></table></td></tr>
<tr><td>Q63</td><td>Buffer AMP (picture sig. output)</td><td>VIDEO 1 (emitter follower)</td></tr>
<tr><td>Q64</td><td></td><td>VIDEO 2 (emitter follower)</td></tr>
<tr><td>Q65</td><td></td><td>Monitor out (emitter follower)</td></tr>
<tr><td>Q66, 67</td><td>Control of picture sig. selecting</td><td></td></tr>
</table>

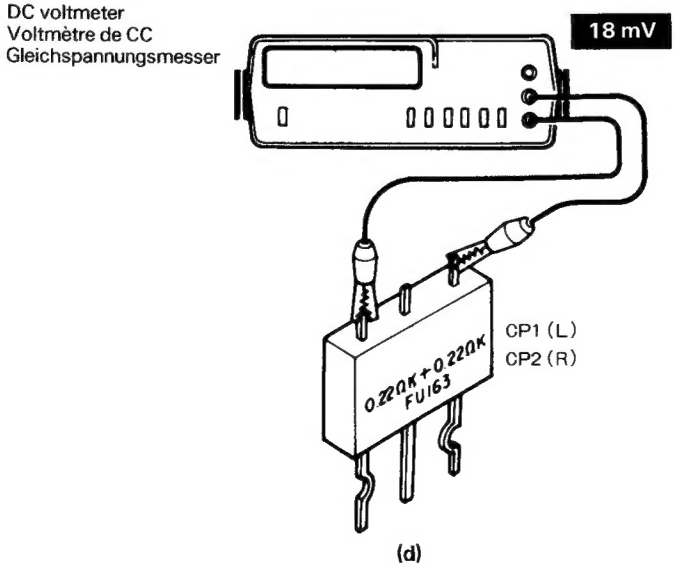
CIRCUIT DESCRIPTION

TUNER, μ-COM UNIT (X05-3370-10)

Components	Application/Function	Operation/Condition/Compatibility
IC1	FM IF/DET, AM MIX/IF/DET	
IC2	FM MPX	
IC3	PLL synthe	
IC4	Microprocessor	system control
IC5	Microprocessor	remote control
IC6~10	FIP driver	(transistor array)
IC11	Frequency display control	conv. to display frequency (static display)
Q1	FM IF AMP	
Q2, 3	TUNE indicating signal	status: Q2 OFF Q3 ON; not TUNE: Q2 ON Q3 OFF
Q4	AM/FM switching	Q4: FM ON, AM OFF
Q5	Prevention of wrong STEREO indicating	Q5 ON when FM TUNE indicator lights on.
Q7	Ripple filter	
Q8	FM + B switching	
Q9, 10	L. P. F in PLL synthe	
Q11	FIP driver (TUNE)	working when TUNE indicator lights on.
Q12	FIP driver (STEREO)	working when STEREO indicator lights on.

ADJUSTMENT/REGLAGE/ABGLEICH





(d)

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: STEREO					
1	DISCRIMINATOR (1)	(A) 98.0MHz 1kHz, ±75kHz dev 60dBμ(ANT input)	Connect a DC voltmeter between TP8 and TP9.	MONO 98.0MHz	T2 (X05-)	0V	(a)
2	DISCRIMINATOR (2)	(A) 98.0MHz 1kHz, ±75kHz dev 60dBμ(ANT input)	(B)	MONO 98.0MHz	T3 (X05-)	Minimum distortion.	
		Repeat alignments 1 and 2 several times.					
3	VCO	(A) 98.0MHz 0 dev 60dBμ(ANT input)	Connect a 330kΩ resistor to TP7. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR3 (X05-)	76.00kHz	(b)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R Pilot: ±6.75kHz dev 60dBμ(ANT input)	(B)	98.0MHz	Front end IFT (X05-)	Minimum distortion.	
5	SEPARATION	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R Pilot: ±6.75kHz dev 60dBμ(ANT input)	(B)	98.0MHz	VR4 (X05-)	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
AM SECTION		Keep the loop antenna installed. INPUT SELECTOR: AM					
(1)	BAND EDGE (1)	–	Connect a DC voltmeter to TP2.	530kHz (531kHz)	L3 (X05-)	1.5V	(c)
(2)	BAND EDGE (2)	–	Connect a DC voltmeter to TP2.	1610kHz (1602kHz)	TC1 (X05-)	8.0V	(c)
		Repeat alignments (1) and (2) several times.					
(3)	RF ALIGNMENT (1)	(D) 600(603)kHz 400Hz, 30% mod	(B)	600kHz (603kHz)	L2 (X05-)	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1400(1404)kHz 400Hz, 30% mod	(B)	1400kHz (1404kHz)	TC2 (X05-)	Maximum amplitude and symmetry of the oscilloscope display.	
		Repeat alignments (3) and (4) several times.					
(5)	IF TRANSFORMER	(D) 1000(999)kHz 400Hz, 30% mod	(B)	1000kHz (999kHz)	T1 (X05-)	Maximum amplitude and symmetry of the oscilloscope display.	
AM/FM COMMON SECTION							
6	TUNE INDICATOR THRESHOLD LEVEL (1)	(A) 98.0MHz 0 dev 18dBμ(ANT input)	–	FM reception 98.0MHz	VR2 (X05-)	Light	
(6)	TUNE INDICATOR THRESHOLD LEVEL (2)	(D) 1000(999)kHz 20~24dBμ(ANT input)	–	AM reception 1000(999)kHz	VR1 (X05-)	Light	
AUDIO SECTION							
7	IDLE CURRENT	–	(E) DC voltmeter CP1(CP2)	Volume: 0	VR1(L) VR2(R) (X09-)	18mV	(d)

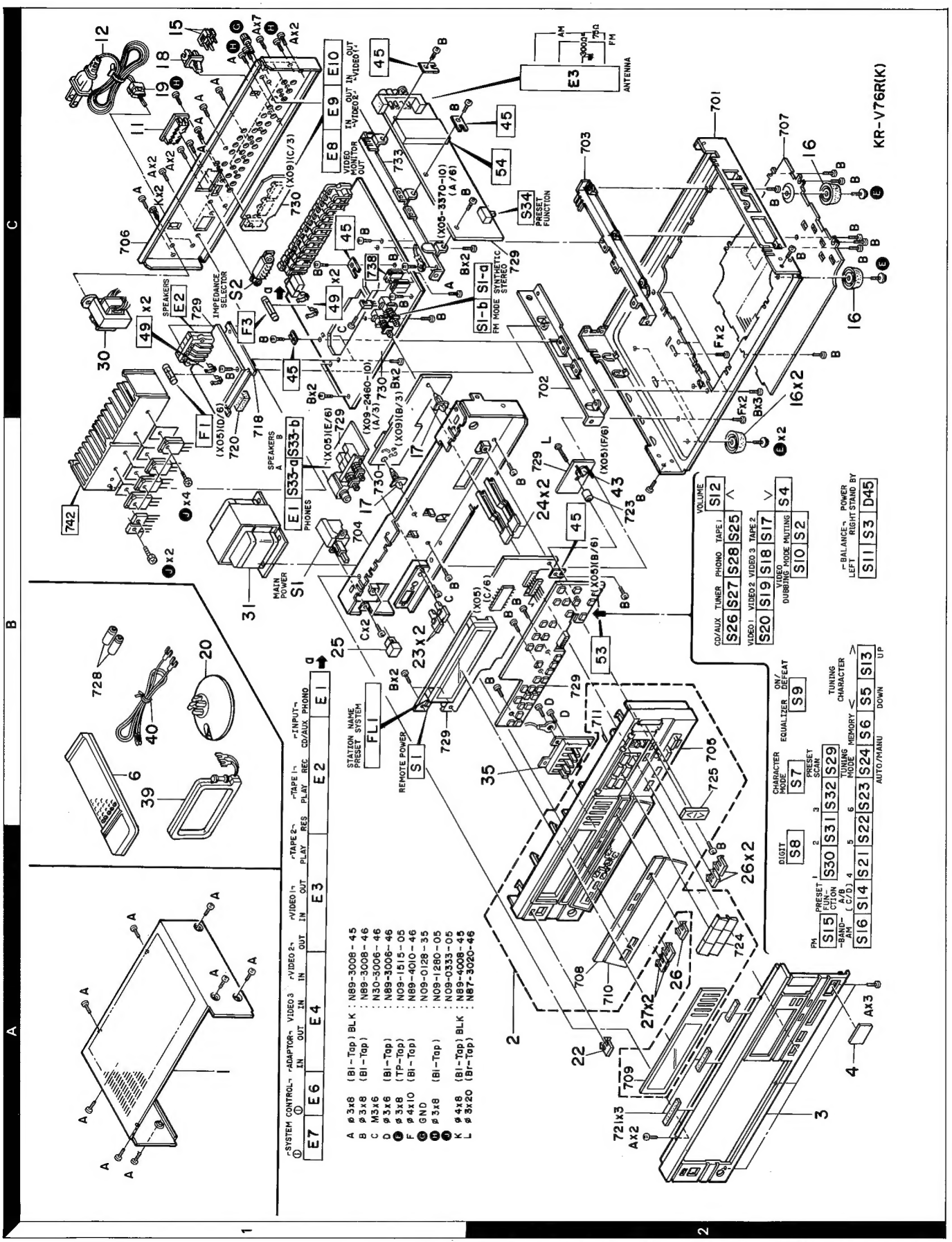
REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF	Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR DES ENTRESS: MF MODE: STEREO						
1	DISCRIMINATEUR (1)	(A) 98,0MHz 1kHz.±75kHz dév 60dBμ(Entrée ANT)	Relier un voltmètre CC entre les TP8 et TP9.	MONO 98,0MHz	T2 (X05-)	0V	(a)
2	DISCRIMINATEUR (2)	(A) 98,0MHz 1kHz.±75kHz dév 60dBμ(Entrée ANT)	(B)	MONO 98,0MHz	T3 (X05-)	Distorsion minimale.	
	Répéter les points 1 et 2 plusieurs fois.						
3	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98,0MHz 0 dév 60dBμ(Entrée ANT)	Relier une résistance de 330kΩ à TP7. Raccorder un compteur de fréquence à une résistance par l'intèrmediaire d'un voltmètre CA.	98,0MHz	VR3 (X05-)	76,00kHz	(b)
4	DISTORSION (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz dév Selection:L ou R Signal pilote: ±6,75kHz dév 60dBμ(Entrée ANT)	(B)	98,0MHz	Tête H.F. IFT (X05-)	Distorsion minimale.	
5	SEPARATION	(C) 98,0MHz 1kHz,±68,25kHz dév Selection:L ou R Signal pilote: ±6,75kHz dév 60dBμ(Entrée ANT)	(B)	98,0MHz	VR4 (X05-)	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparation de gauche à droite et droite à gauche sont inéglage.	
SECTION MA	Laisser l'antenne bouche MA installée. SELECTEUR: AM						
(1)	BORD DE BANDE (1)	–	Relier un voltmètre CC au TP2.	530kHz (531kHz)	L3 (X05-)	1,5V	(c)
(2)	BORD DE BANDE (2)	–	Relier un voltmètre CC au TP2.	1610kHz (1602kHz)	TC1 (X05-)	8,0V	(c)
	Répéter les points (1) et (2) plusieurs fois.						
(3)	ALIGNEMENT H.T. (1)	(D) 600(603)kHz 400Hz.30% mod	(B)	600kHz (603kHz)	L2 (X05-)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT H.T. (2)	(D) 1400(1404)kHz 400Hz.30% mod	(B)	1400kHz (1404kHz)	TC2 (X05-)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
	Répéter les points (3) et (4) plusieurs fois.						
(5)	TRANSFORMATEUR F.I.	(D) 1000(999)kHz 400Hz.30% mod	(B)	1000kHz (999kHz)	T1 (X05-)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
SECTION COMMUNE MA/MF							
6	INDICATEUR DE SYNTONISATION NIVEAU DE SEUIL	(A) 98,0MHz 0 dév 18dBμ(Entrée ANT)	–	Reception MF 98,0MHz	VR2 (X05-)	Arrume	
(6)	INDICATEUR DE SYNTONISATION NIVEAU DE SEUIL	(D) 1000(999)kHz 20~24dBμ (Entrée ANT)	–	Reception MA 1000(999)kHz	VR1 (X05-)	Arrume	
SECTION AUDIO							
7	COURANA DE POLARISATION	–	(E) Connecter un voltmètre CC CP1(CP2)	Volume: 0	VR1 (G) VR2 (D) (X09-)	18mV	(d)

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG		Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: EINGANGSUMSCHALTER: FM MODE: STEREO					
1	DISKRIMINATOR (1)	(A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(ANT-Eingang)	Einen Gleichspannungs-messer zwischen TP8 und TP9 anschließen.	MONO 98,0MHz	T2 (X05-)	0V	(a)
2	DISKRIMINATOR (2)	(A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(ANT-Eingang)	(B)	MONO 98,0MHz	T3 (X05-)	Minimal Klirrfaktor.	
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dBμ(ANT-Eingang)	Einen 330kΩ Wider-standen zu TP7 anschließen. Einen Frequenzzähler über einen Wechselspannungs-messer an den Wider-stand anschließen.	98,0MHz	VR3 (X05-)	76,00kHz	(b)
4	KLIRRFAKTOR (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler:L oder R Pilotten: ±6,75kHz Hub 60dBμ(ANT-Eingang)	(B)	98,0MHz	Frontende IFT (X05-)	Minimal Klirrfaktor.	
5	STEREO KANAL TRENNUNG	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler:L oder R Pilotten: ±6,75kHz Hub 60dBμ(ANT-Eingang)	(B)	98,0MHz	VR4 (X05-)	Minimales Übersprechen. Eine Ausgleich-regelung kann notwendig sein, falls links-zu-rechts und rechts-zu-links. Trennungen ungleich sind.	
MW-EMPFANGSABTEILUNG		Die MW-Rahmenantenne angebracht lassen. WÄHLER: AM					
(1)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zu TP2 anschließen.	530kHz (531kHz)	L3 (X05-)	1.5V	(c)
(2)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zu TP2 anschließen.	1610kHz (1602kHz)	TC1 (X05-)	8.0V	(c)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 600(603)kHz 400Hz.30% mod	(B)	600kHz (603kHz)	L2 (X05-)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1400(1404)kHz 400Hz.30% mod	(B)	1400kHz (1404kHz)	TC2 (X05-)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
(5)	ZF-ÜBERTRAGER	(D) 1000(999)kHz 400Hz.30% mod	(B)	1000kHz (999)kHz	T1 (X05-)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
MW/UKW-EMPFANGSABTEILUNG		Die MW/UKW-Rahmenantenne angebracht lassen.					
6	ABSTIMMANZEIGE SCHWELLENPEGEL	(A) 98,0MHz 0 Hub 18dBμ(ANT-Eingang)	–	UKW-Empfang 98,0MHz	VR2 (X05-)	Einschalen	
(6)	ABSTIMMANZEIGE SCHWELLENPEGEL	(D) 1000(999)kHz 20～24dBμ (ANT-Eingang)	–	MW-Empfang 1000(999)kHz	VR1 (X05-)	Einschalen	
AUDIO-ABTEILUNG							
7	LEERLAUFSTROM	–	(E) Einen Gleichspannungs-messer über CP1(CP2)	Volume: 0	VR1 (L) VR2 (R) (X09-)	18mV	(d)

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KR-V76R			
1	1A		A01-1488-01	METALLIC CABINET		
2	2A	*	A22-0675-02	SUB PANEL ASSY		
3	2A		A20-4844-02	PANEL		
6	1B	*	A70-0170-15	REMOTE CONTROLLER ASSY	K	
6	1B	*	A70-0171-25	REMOTE CONTROLLER ASSY	P	
4	2A		B03-2058-04	DRESSING PLATE (REMOTE SENSOR)		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0121-03	WARRANTY CARD	P	
-		*	B50-6816-00	INSTRUCTION MANUAL(ENGLISH)	K	
-		*	B50-6817-00	INSTRUCTION MANUAL(ENG,FRE)	P	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0389-04	CAUTION CARD		
⚠ 11	1C		E03-0086-05	AC OUTLET		
⚠ 12	1C		E30-2209-05	AC POWER CORD		
-		*	H01-7558-04	ITEM CARTON CASE		
-		*	H10-3452-04	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-3468-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0181-04	PROTECTION BAG (150X260X0.05)		
-			H25-0224-04	PROTECTION BAG (800X400X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
15	1C		J12-0094-05	PIN (ADAPTOR)		
16	2C		J02-0170-04	FOOT		
17	1B		J19-0506-05	UNIT HOLDER		
18	1C		J19-0564-05	ANTENNA HOLDER		
⚠ 19	1C		J42-0083-05	POWER CORD BUSHING		
20	1B	*	J19-2815-04	ANTENNA HOLDER		
-			J61-0307-05	WIRE BAND		
22	2A		K29-2423-04	KNOB (BUTTON) REMOTE POWER		
23	1B		K27-1264-04	KNOB (BUTTON) SPEAKERS		
24	2B		K27-1647-04	KNOB (BUTTON) FM MODE,SYNTHE		
25	1B		K29-2001-04	KNOB ASSY(BUTTON)POWER		
26	2A		K29-2422-04	KNOB (BUTTON)EQ,DUBBING,MUTING		
27	2A		K29-2425-04	KNOB (BUTTON) SEL,CHAR MODE		
⚠ 30	1C		L01-6681-05	POWER TRANSFORMER(BACKUP)		
⚠ 31	1B	*	L01-7851-05	POWER TRANSFORMER	K	
⚠ 31	1B	*	L01-7857-05	POWER TRANSFORMER	P	
E	2B,2C		N09-1515-05	TAPPING SCREW (Ø3X8)		
G	1C		N08-0128-35	BINDING POST (GND)		
H	1C		N09-1280-05	TAPTITE SCREW (Ø3X8)		
35	2B		R29-5010-05	POTENTIOMETER(5KEY,20KW)EQ		
⚠ S1	1B		S40-1073-05	PUSH SWITCH (POWER)		
⚠ S2	1C		S31-2113-05	SLIDE SWITCH (IMPEDANCE)		
39	1B		T90-0104-25	LOOP ANTENNA		
40	1B		T90-0121-05	T TYPE ANTENNA		
-	1B		M50461-057SP	IC(REMOTE CONTROLLER)	K	
43	2B		W09-0031-05	BATTERY		

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TUNER UNIT (X05-3370-10)						
D45	2B		B30-0483-05	LED(SLP-170B) POWER STAND BY		
C1 ,2			C91-0769-05	CERAMIC 0.01UF M		
C3			CK45FF1H103Z	CERAMIC 0.010UF Z		
C4			C91-0769-05	CERAMIC 0.01UF M		
C5		*	CE04LW1C330M	ELECTRO 33UF 16WV		
C6			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C7			CC45FSL1H101J	CERAMIC 100PF J		
C8		*	CE04LW1C330M	ELECTRO 33UF 16WV		
C9			CK45FF1H223Z	CERAMIC 0.022UF Z		
C10			CK45FF1H103Z	CERAMIC 0.010UF Z		
C11		*	CC93FCH1H391J	CERAMIC 390PF J		
C12			C91-0769-05	CERAMIC 0.01UF M		
C13			CE04LW1V100M	ELECTRO 10UF 35WV		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C17			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C18			CE04LW1V100M	ELECTRO 10UF 35WV		
C19			CF92FV1H223J	MF 0.022UF J		
C20			CF92FV1H273J	MF 0.027UF J		
C21			CK45FF1H223Z	CERAMIC 0.022UF Z		
C22			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C23		*	CC93FCH1H471J	CERAMIC 470PF J		
C24			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C25			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C26			CF92FV1H473J	MF 0.047UF J		
C27			C91-0753-05	CHIP C 470PF K		
C28		*	CE04LW1C101M	ELECTRO 100UF 16WV		
C30		*	CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C31		*	CE04LW1C330M	ELECTRO 33UF 16WV		
C32			CE04LW1V100M	ELECTRO 10UF 35WV		
C33			C91-0769-05	CERAMIC 0.01UF M		
C34			CE04LW1C330M	ELECTRO 33UF 16WV		
C35			C91-0769-05	CERAMIC 0.01UF M		
C36			CF92FV1H473J	MF 0.047UF J		
C37			C90-1349-05	NP-ELEC 1UF 50WV		
C38			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C39			CC45FCH1H470J	CERAMIC 47PF J		
C40			CC45FCH1H390J	CERAMIC 39PF J		
C41			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C43			C91-0769-05	CERAMIC 0.01UF M		
C72 ,73			CC45FSL1H151J	CERAMIC 150PF J		
C74 ,75			CF92FV1H223J	MF 0.022UF J		
C78 ,79			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C200-203			C91-0737-05	CERAMIC 47PF J		
C204			C91-0769-05	CERAMIC 0.01UF M		
C205,206			CE04JW1H010M	ELECTRO 1.0UF 50WV		
C207,208			C91-0749-05	CERAMIC 220PF K		
C209			CE04JW1H010M	ELECTRO 1.0UF 50WV		
C210			C91-0789-05	BACKUP C 0.047F		
C211			CE04JW1A101M	ELECTRO 100UF 10WV		
C212			CE04JW0J100M	ELECTRO 10UF 6.3WV		
C213			CE04JW1A101M	ELECTRO 100UF 10WV		

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C214			CE04CW1A101M	ELECTRO 100UF 10WV		
C215			CE04JW0J100M	ELECTRO 10UF 6.3WV		
C216		*	CE04LW1C331M	ELECTRO 330UF 16WV		
C217			CE04JW1V3R3M	ELECTRO 3.3UF 35WV		
C218-220			C91-0745-05	CERAMIC 100PF K		
C235-238			CE04CW1A101M	ELECTRO 100UF 10WV		
TC1 ,2			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
45	1C,2C		E23-0125-05	TERMINAL (GND)		
E1	1B		E11-0162-05	PHONE JACK (3P)		
E2	1C		E20-0823-05	LOCK TERMINAL BOARD(8P)SPEAKER		
E3	2C		E20-0452-05	SCREW TERMINAL BOARD(4P)ANT		
⚠ F1	1B		F06-5022-05	FUSE (UL) (250V 5A)		
49	1C		J13-0041-05	FUSE CLIP		
CF1 ,2			L72-0140-05	CERAMIC FILTER		
CF3			L72-0099-05	CERAMIC FILTER		
CF4			L72-0096-05	CERAMIC FILTER		
L1			L40-1092-14	SMALL FIXED INDUCTOR(1.0UH,M)		
L2			L31-0509-05	MW-RF COIL		
L3			L32-0277-15	MW OSCILLATING COIL		
L4			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L5			L40-2292-14	SMALL FIXED INDUCTOR(2.2UH,M)		
L6			L39-0128-05	PEAKING COIL		
L7			L40-2292-14	SMALL FIXED INDUCTOR(2.2UH,M)		
L8 ,9			L39-0085-05	PHASE-COMPENSATION COIL		
L12			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
T1			L30-0362-05	AM IFT		
T2			L30-0447-05	FM IFT		
T3			L30-0448-05	FM IFT		
X1			L77-0578-05	CRYSTAL RESONATOR(7.2MHZ)		
X2			L78-0209-05	RESONATOR (4.194MHZ)		
X3			L78-0202-05	RESONATOR (400KHZ)		
CP1			R90-0475-05	COMPOSITE ELEMENTS		
CP2			R90-0202-05	MULTI-COMP 47KX4 J 1/6W		
CP3 ,4			R90-0470-05	COMPOSITE ELEMENTS		
CP5 -9			R90-0426-05	MULTI-COMP 100KX6 J 1/6W		
CP10			R90-0441-05	MULTI-COMP 10KX9 J 1/6W		
CP11			R90-0416-05	MULTI-COMP 10KX13 J 1/6W		
R12			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R23			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R37			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R50			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
⚠ R238			R92-0173-05	RC 2.2M M 1/2W		
R250,251			RS14KB3A561J	FL-PROOF RS 560 J 1W		
R252,253			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
VR1			R12-3096-05	TRIMMING POT.(10K)AM		
VR2			R12-3097-05	TRIMMING POT.(22K)FM		
VR3			R12-1069-05	TRIMMING POT.(4.7K)VCO		
VR4			R12-8015-05	TRIMMING POT.(1M) SEPARATION		
⚠ K1			S51-1036-05	MAGNETIC RELAY		
S1 -32	2A,2B		S40-1064-05	PUSH SWITCH (OPERATION KEY)		
S33	1B		S42-2139-05	MULTIPLE PUSH SWITCH(SPEAKERS)		
S34	2C		S31-2094-05	SLIDE SWITCH (PRESET)		

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D1			1SS133	DIODE		
D1			1SS176	DIODE		
D2			KV1236(Z2)	VARIABLE CAPACITANCE DIODE		
D3			HZS6.8N(B2)	ZENER DIODE		
D3			RD6.8ES(B2)	ZENER DIODE		
D4 -6			1SS133	DIODE		
D4 -6			1SS176	DIODE		
D8			1SS133	DIODE		
D8			1SS176	DIODE		
D10			1SS133	DIODE		
D10			1SS176	DIODE		
D21 -38			1SS133	DIODE		
D21 -38			1SS176	DIODE		
D39			HZS10N(B)	ZENER DIODE		
D39			RD10ES(B)	ZENER DIODE		
D40 -44			1SS133	DIODE		
D40 -44			1SS176	DIODE		
D46 -50			DSM1A1	DIODE		
D51 -53			1SS133	DIODE		
D51 -53			1SS176	DIODE		
FL1			FIP9AM24	FLUORESCENT INDICATOR TUBE		
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC4			7516HG-050-36	IC(MICROPROCESSOR)		
IC5			UPD7564CS-037	IC(MICROPROCESSOR)		
IC6 -10			LB1294	IC(6CH DARLINGTON DRIVER)		
IC11			TD6301AP	IC(FL/LED/LCD FREQ DISPLAY DR)		
Q1			2SC1923(R,S)	TRANSISTOR		
Q2 -5			2SC945(A)(Q,P)	TRANSISTOR		
Q7			2SC2003(L,K)	TRANSISTOR		
Q8			2SA733(A)(Q,P)	TRANSISTOR		
Q9 ,10			2SC1845(F,E)	TRANSISTOR		
Q11 ,12			2SA733(A)(Q,P)	TRANSISTOR		
53	2B		W02-0692-05	ELECTRIC CIRCUIT MODULE		
54	2C		W02-0699-05	FM FRONT-END ASSY		
AUDIO UNIT (X09-2460-10)						
C1 ,2			C91-0749-05	CERAMIC 220PF K		
C3 ,4			CE04LW1V100M	ELECTRO 10UF 35WV		
C7 ,8		*	CE04LW1A101M	ELECTRO 100UF 10WV		
C9 ,10			CF92FV1H123J	MF 0.012UF J		
C11 ,12			CF92FV1H332J	MF 3300PF J		
C13 ,14		*	CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C15 -30			C91-0753-05	CHIP C 470PF K		
C31 -34			CE04LW1V100M	ELECTRO 10UF 35WV		
C35 -40			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C41 ,42			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C43 ,44			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C45 ,46			C91-0751-05	CERAMIC 330PF K		
C47 ,48			CE04LW1V100M	ELECTRO 10UF 35WV		
C49			C91-0769-05	CERAMIC 0.01UF M		
C51			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C52			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C53 ,54			CK45FF1H223Z	CERAMIC 0.022UF Z		

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C55			C91-0769-05	CERAMIC	0.01UF	M	
C56			CE04LW1C470M	ELECTRO	47UF	16WV	
C57			CE04LW1C470M	ELECTRO	47UF	16WV	
C58			CE04EW1C101M	ELECTRO	100UF	16WV	
C59 ,60		*	CE04LW1C220M	ELECTRO	22UF	16WV	
C61 ,62			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C63 ,64			C91-0749-05	CERAMIC	220PF	K	
C65 -68			C91-0769-05	CERAMIC	0.01UF	M	
C69 ,70			CC45FSL1H020C	CERAMIC	2.0PF	C	
C71 ,72			CC45FSL1H220J	CERAMIC	22PF	J	
C73 ,74			CC45FSL1H470J	CERAMIC	47PF	J	
C75 ,76			CC45FSL1H221J	CERAMIC	220PF	J	
C77 ,78			CK45FF1H103Z	CERAMIC	0.010UF	Z	
C81 ,82			CF92FV1H473J	MF	0.047UF	J	
C83 ,84			CK45FB1H222K	CERAMIC	2200PF	K	
C85		*	CE04LW1J100M	ELECTRO	10UF	63WV	
C86		*	CE04LW1J330M	ELECTRO	33UF	63WV	
C87			CE04LW1V100M	ELECTRO	10UF	35WV	
C88			CE04LW1C221M	ELECTRO	220UF	16WV	
C89			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	
C90		*	CE04LW1E101M	ELECTRO	100UF	25WV	
C91		*	CE04LW1H100M	ELECTRO	10UF	50WV	
C92		*	CE04LW1H101M	ELECTRO	100UF	50WV	
C93 ,94		*	C90-1500-05	ELECTRO	5600UF	63WV	
C95 ,96			CK45FF1H103Z	CERAMIC	0.010UF	Z	
C97		*	CE04LW1V101M	ELECTRO	100UF	35WV	
C98		*	CE04LW1E332M	ELECTRO	3300UF	25WV	
C99 -103			CE04LW1C470M	ELECTRO	47UF	16WV	
C104,105			C91-0757-05	CERAMIC	0.001UF	K	
C106		*	CE04LW1V4R7M	ELECTRO	4.7UF	35WV	
C107			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C108		*	CE04EW1V220M	ELECTRO	22UF	35WV	
C111,112			CK45FB1H561K	CERAMIC	560PF	K	
C113,114			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	
C115,116		*	CE04LW1H0R1M	ELECTRO	0.1UF	50WV	
C117,118			CE04LW1HR47M	ELECTRO	0.47UF	50WV	
C119,120			CF92FV1H223J	MF	0.022UF	J	
C121,122			CF92FV1H154J	MF	0.15UF	J	
C123,124			CF92FV1H562J	MF	5600PF	J	
C125,126			CF92FV1H473J	MF	0.047UF	J	
C127,128			CF92FV1H182J	MF	1800PF	J	
C129			CF92FV1H153J	MF	0.015UF	J	
C130			CF92FV1H153J	MF	0.015UF	J	
C131,132			CK45FB1H561K	CERAMIC	560PF	K	
C133			CE04LW1HR47M	ELECTRO	0.47UF	50WV	
C134			CF92FV1H123J	MF	0.012UF	J	
C135			CF92FV1H332J	MF	3300PF	J	
C136			CF92FV1H123J	MF	0.012UF	J	
C137			CF92FV1H332J	MF	3300PF	J	
C138			CF92FV1H123J	MF	0.012UF	J	
C139			CF92FV1H332J	MF	3300PF	J	
C140			CE04LW1V100M	ELECTRO	10UF	35WV	
C141,142			CF92FV1H333J	MF	0.033UF	J	
C143			CE04LW1V100M	ELECTRO	10UF	35WV	
C151			CE04LW1V100M	ELECTRO	10UF	35WV	

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C152			CE04JW1C100M	ELECTRO 10UF 16WV		
C153			CE04LW1V100M	ELECTRO 10UF 35WV		
C154-156			CE04EW0J471M	ELECTRO 470UF 6.3WV		
C157,158		*	CE04LW1A470M	ELECTRO 47UF 10WV		
45	1C		E23-0125-05	TERMINAL		
E2 -4	1A,1B		E13-0814-05	PHONO JACK (8P)TAPE,VIDEO		
E6 ,7	1A		E11-0164-05	MINIATURE PHONE JACK(3P)		
E8 -10	1C		E13-0227-05	PHONO JACK (2P)VIDEO,MONI		
E1 1B			E13-0229-05	PHONO JACK (2P)INPUT		
F3	1C		F06-1521-05	FUSE (UL) (250V 1.5A)		
49	1C		J13-0041-05	FUSE CLIP		
J	1B		N09-0333-05	TAPPING SCREW (Ø3X12)		
CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R131-136			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R143-146			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R147-150			RD14GB2E2R2J	FL-PROOF RD 2.2 J 1/4W		
R151			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
R152			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
R153,154			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R169			RD14GB2E4R7J	FL-PROOF RD 4.7 J 1/4W		
R175			RD14GB2E270J	FL-PROOF RD 27 J 1/4W		
R183,184			RS14KB3A681J	FL-PROOF RS 680 J 1W		
R187			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R194			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
VR1 ,2			R12-1066-05	TRIMMING POT.(1K)IDLE CURRENT		
S1	1C		S42-2140-05	MULTIPLE PUSH SWITCH(FM,STNTHE		
D1 -38			1SS133	DIODE		
D1 -38			1SS176	DIODE		
D39 -42			1SS131	DIODE		
D39 -42			1SS178	DIODE		
D43			DSM1A1	DIODE		
D44 ,45			1SS133	DIODE		
D44 ,45			1SS176	DIODE		
D46 -49			DSA3A2	DIODE		
D50 ,51			DSM1A1	DIODE		
D52			RD33ES(B2)	ZENER DIODE		
D53			HZS8.2N(B2)	ZENER DIODE		
D53			RD8.2ES(B2)	ZENER DIODE		
D54 -57			DSM1A1	DIODE		
D58			HZS13N(B2)	ZENER DIODE		
D58			RD13ES(B2)	ZENER DIODE		
D59			1SS131	DIODE		
D59			1SS178	DIODE		
D60			1SS133	DIODE		
D60			1SS176	DIODE		
D61			HZS6.2N(B2)	ZENER DIODE		
D61			RD6.2ES(B2)	ZENER DIODE		
D62 -64			1SS133	DIODE		
D62 -64			1SS176	DIODE		
D69 ,70			1SS133	DIODE		
D69 ,70			1SS176	DIODE		

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D71			HZS8.2N(B2)	ZENER DIODE		
D71			RD8.2ES(B2)	ZENER DIODE		
D72			HZS6.2N(B2)	ZENER DIODE		
D72			RD6.2ES(B2)	ZENER DIODE		
D73 ,74			1SS133	DIODE		
D73 ,74			1SS176	DIODE		
D79 -86			1SS133	DIODE		
D79 -86			1SS176	DIODE		
D87			HZS6.2N(B2)	ZENER DIODE		
D87			RD6.2ES(B2)	ZENER DIODE		
D88			HZS3.3N(B)	ZENER DIODE		
D88			RD3.3ES(B)	ZENER DIODE		
D89 ,90			1SS133	DIODE		
IC1			AN6556F	IC(OP AMP X2)		
IC1			M5218P-A	IC(OP AMP X2)		
IC2			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC3			TC9163N	IC(BILATERAL SWITCH X16)		
IC4			TC9176P	IC(2CH ELECTRONIC VOLUME)		
IC5			AN6556F	IC(OP AMP X2)		
IC5			M5218P-A	IC(OP AMP X2)		
IC7 ,8			M5227P	IC(5CH GRAPHIC EQULIZER)		
IC9 ,10			AN6556F	IC(OP AMP X2)		
IC9 ,10			M5218P-A	IC(OP AMP X2)		
IC11,12			UPD4066BC	IC(BILATERAL SWITCH X4)		
Q1 -4			2SC1845(F,E)	TRANSISTOR		
Q5 ,6			2SC2878	TRANSISTOR		
Q7 ,8			2SC945(A)(Q,P)	TRANSISTOR		
Q9			2SA733(A)(Q,P)	TRANSISTOR		
Q9			2SA999(E,F)	TRANSISTOR		
Q10			2SC2320(E,F)	TRANSISTOR		
Q10			2SC945(A)(Q,P)	TRANSISTOR		
Q11 -14			2SA992(F,E)	TRANSISTOR		
Q15 -18			2SC1845(F,E)	TRANSISTOR		
Q19 ,20			2SA992(F,E)	TRANSISTOR		
Q21 ,22			2SC3419(Y)	TRANSISTOR		
Q23 ,24			2SC2590(Q,R)	TRANSISTOR		
Q25 ,26			2SA1110(Q,R)	TRANSISTOR		
⚠ Q27 ,28			2SC3280*5	TRANSISTOR		
⚠ Q29 ,30			2SA1301*5	TRANSISTOR		
Q31 ,32			2SC1845(F,E)	TRANSISTOR		
Q33			2SA992(F,E)	TRANSISTOR		
Q34 ,35			2SC2320(E,F)	TRANSISTOR		
Q34 ,35			2SC945(A)(Q,P)	TRANSISTOR		
Q36			2SC2878	TRANSISTOR		
Q37			2SB772(Q,P)	TRANSISTOR		
Q38			2SC2167	TRANSISTOR		
Q39 ,40			2SC945(A)(Q,P)	TRANSISTOR		
Q40			2SC2320(E,F)	TRANSISTOR		
Q41			2SA999(E,F)	TRANSISTOR		
Q41 ,42			2SA733(A)(Q,P)	TRANSISTOR		
Q43 ,44			2SC2167	TRANSISTOR		
Q45			2SA733(A)(Q,P)	TRANSISTOR		
Q45			2SA999(E,F)	TRANSISTOR		
Q46			2SC2003(L,K)	TRANSISTOR		
Q47			2SA733(A)(Q,P)	TRANSISTOR		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

PARTS LIST

⋇ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
Q47			2SA999(E,F)	TRANSISTOR		
Q51 -57			2SC2320(E,F)	TRANSISTOR		
Q51 -57			2SC945(A)(Q,P)	TRANSISTOR		
Q58			2SC2003(L,K)	TRANSISTOR		
Q60 ,61			2SA733(A)(Q,P)	TRANSISTOR		
Q60 ,61			2SA999(E,F)	TRANSISTOR		
Q62			2SC2003(L,K)	TRANSISTOR		
Q63 -65			2SA999(E,F)	TRANSISTOR		
Q66 ,67			2SC2320(E,F)	TRANSISTOR		
Q66 ,67			2SC945(A)(Q,P)	TRANSISTOR		
FM FRONT-END ASS'Y (W02-0699-05)						
D1 -3			1SV110	DIODE		
TR1			2SK439	TRANSISTOR		
TR2 ,3			2SC3391	TRANSISTOR		
TR4			2SC3494	TRANSISTOR		

E: Scandinavia & Europe **K:** USA **P:** Canada
U: PX(Far East, Hawaii) **T:** England **M:** Other Areas
UE : AAFES(Europe) **X:** Australia

⚠ indicates safety critical components.

SPECIFICATIONS

AUDIO SECTION

Power Output

70 watts per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03 % total harmonic distortion

73 watts per channel minimum RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.03 % total harmonic distortion

Total Harmonic Distortion
(20Hz-20.000Hz, 8 ohms)..... 0.03 % at 70 watts
(1kHz , 8 ohms)..... 0.007 % at 70 watts
Intermodulation Distortion..... 0.03 % at 70 watts
Input Sensitivity/Impedance
PHONO (MM)..... 2.5 mV/47 kohms
CD/AUX,TAPE,VIDEO..... 150 mV/47 kohms
Frequency Response
PHONO (RIAA Standard Curve)..... (20Hz-20,000Hz).....±0.5dB
TAPE,CD/AUX,VIDEO..... (10Hz-70,000Hz)...+0, −3dB
Signal to Noise Ratio
PHONO (MM)..... 73 dB
CD/AUX, TAPE..... 100 dB
VIDEO..... 90 dB
Graphic Equalizer
Center Frequency..... 63Hz, 300Hz, 1kHz, 3kHz, 10kHz
Control Range..... ±12 dB

VIDEO SECTION

Inputs
VIDEO 1,2,3..... 1 Vp-p,75 ohms (unbalanced)
Outputs
VIDEO 1,2, MONITOR OUT..... 1 Vp-p,75 ohms (unbalanced)

FM TUNER SECTION

Tuning Frequency Range..... 87.5 MHz - 108 MHz
Antenna Impedance..... 300 ohms balanced & 75 ohms unbalanced
Usable Sensitivity..... 10.8 dBf (1.9 μV)
50dB Quieting Sensitivity
MONO..... 14.2 dBf (2.8 μV)
STEREO..... 37.1 dBf (39 μV)
Signal to Noise Ratio at 65 dBf
MONO..... 78 dB
STEREO..... 72 dB
Total Harmonic Distortion at 1,000Hz
MONO..... 0.09 %
STEREO..... 0.12 %
Frequency Response..... 30 Hz - 15,000 Hz $^{+0.5dB}_{-2dB}$
Stereo Separation..... 45 dB at 1,000 Hz
Selectivity..... 55 dB at 400kHz
Capture Ratio..... 1.2 dB
Image Rejection Ratio..... 43 dB
IF Rejection Ratio..... 86 dB
Spurious Rejection Ratio..... 83 dB
AM Suppression Ratio..... 62 dB

AM TUNER SECTION

Tuning Range
(530kHz - 1,610kHz) with the AM tuning interval set at 10 kHz
Usable Sensitivity..... 10 μV (400 μV/m)
Signal to Noise Ratio..... 50 dB
Total Harmonic Distortion..... 0.3 %
Selectivity..... 25 dB

GENERAL

Power Requirement..... 60 Hz, 120 V
Power Consumption..... 3A
AC Outlet..... Switched x 3 (200 W)
Dimensions..... **W:** 420 mm (16-9/16")
H: 111 mm (4-3/8')
D: 319.5 mm (12-9/16")
Weight..... Net. 7.4kg (16.3 lb)

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION
Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION
2201 East Dominguez Street Carson, CA 90810;
550 Clark Drive Mount Olive, NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC.
P.O. Box 1075 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2

KENWOOD ELECTRONICS BENELUX N.V.
Mechelsesteenweg 418 B-1930 Zaventem, Belgium

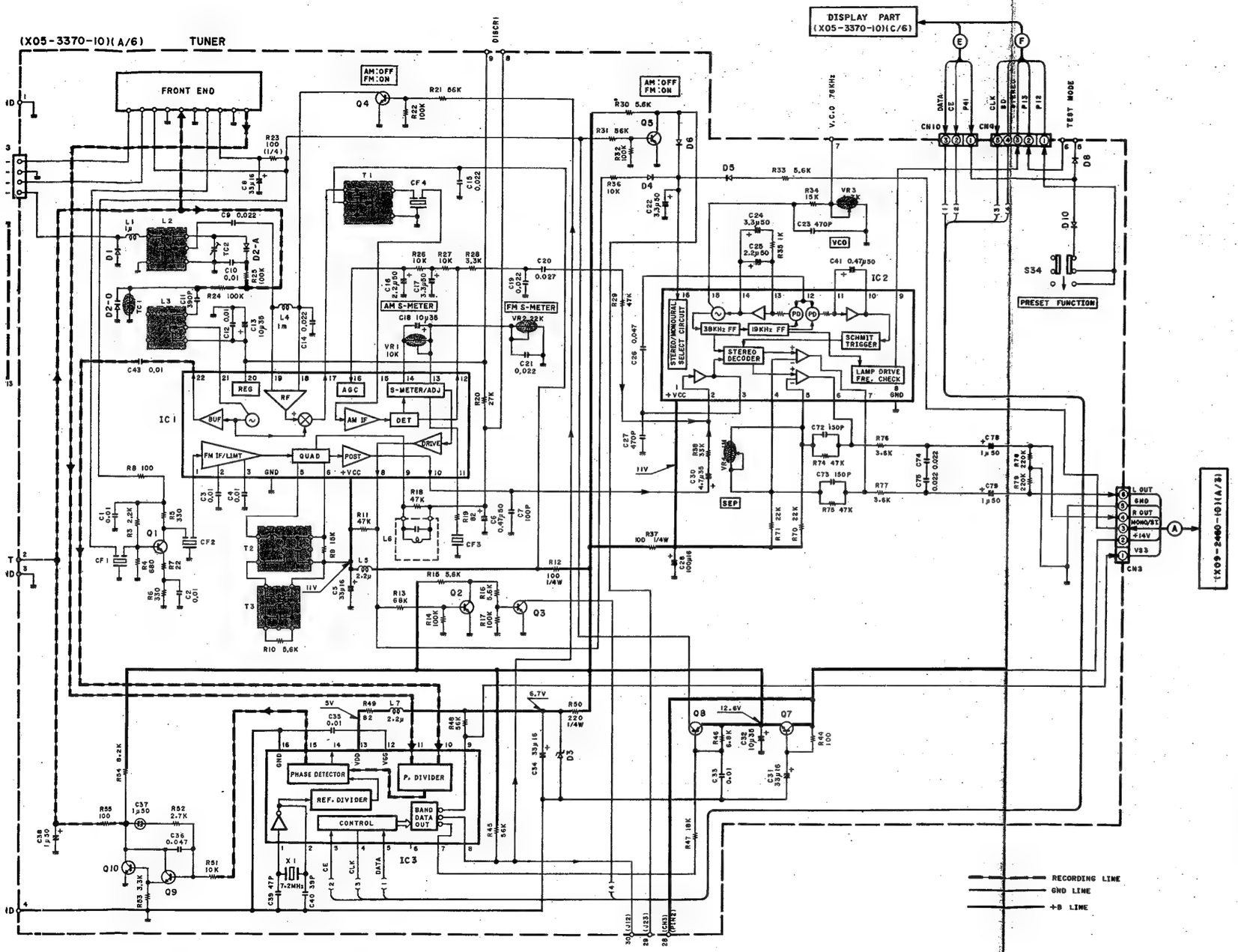
KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrücker-Str. 15, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A.
Hi-Fi•VIDEO•CAR Hi-Fi
13, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD U.K. LTD.
17 Bristol Road, The Metropolitan Centre, Greenford, Middx. UB6 8UP England

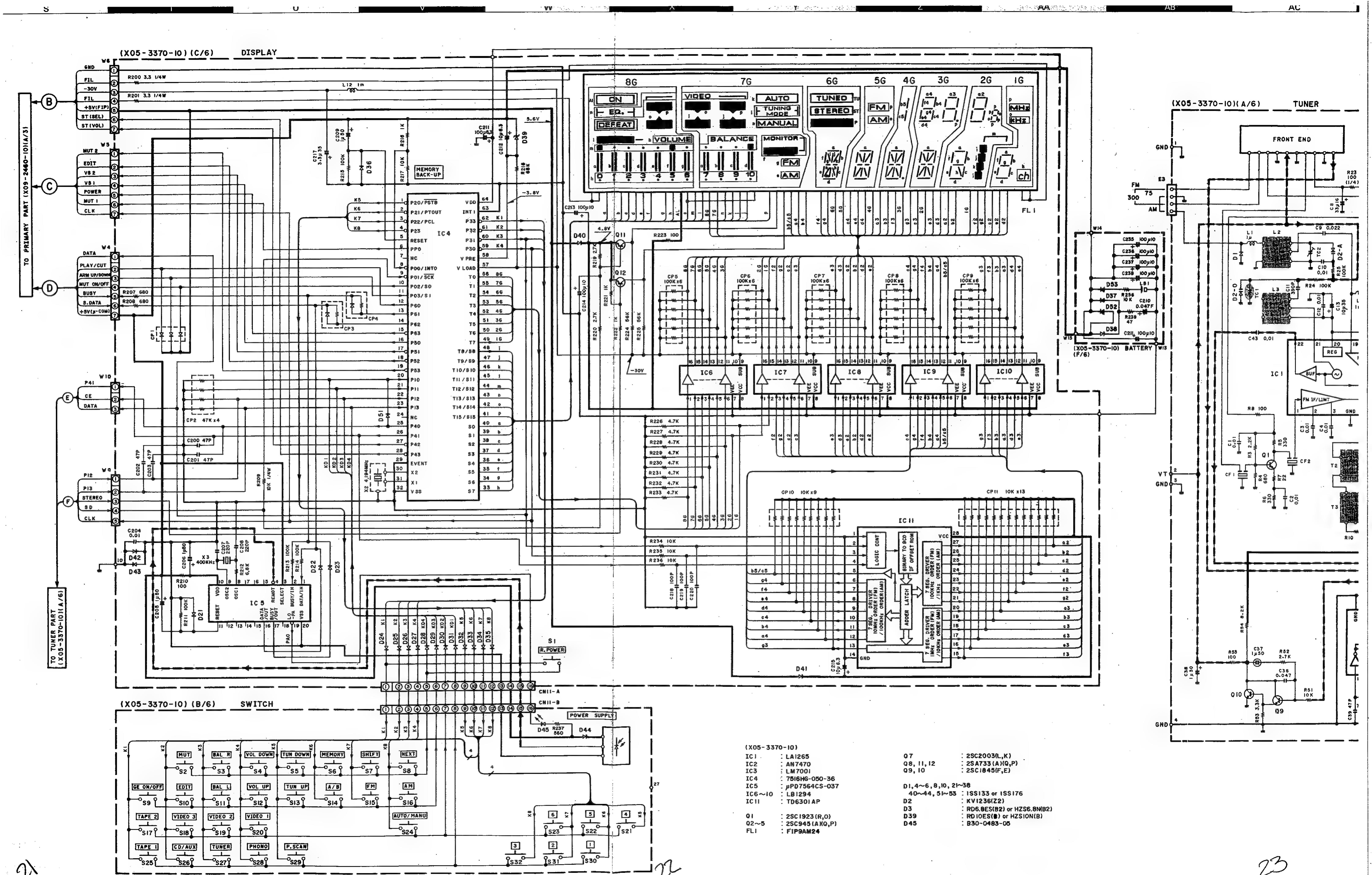
KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.
4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.
Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong



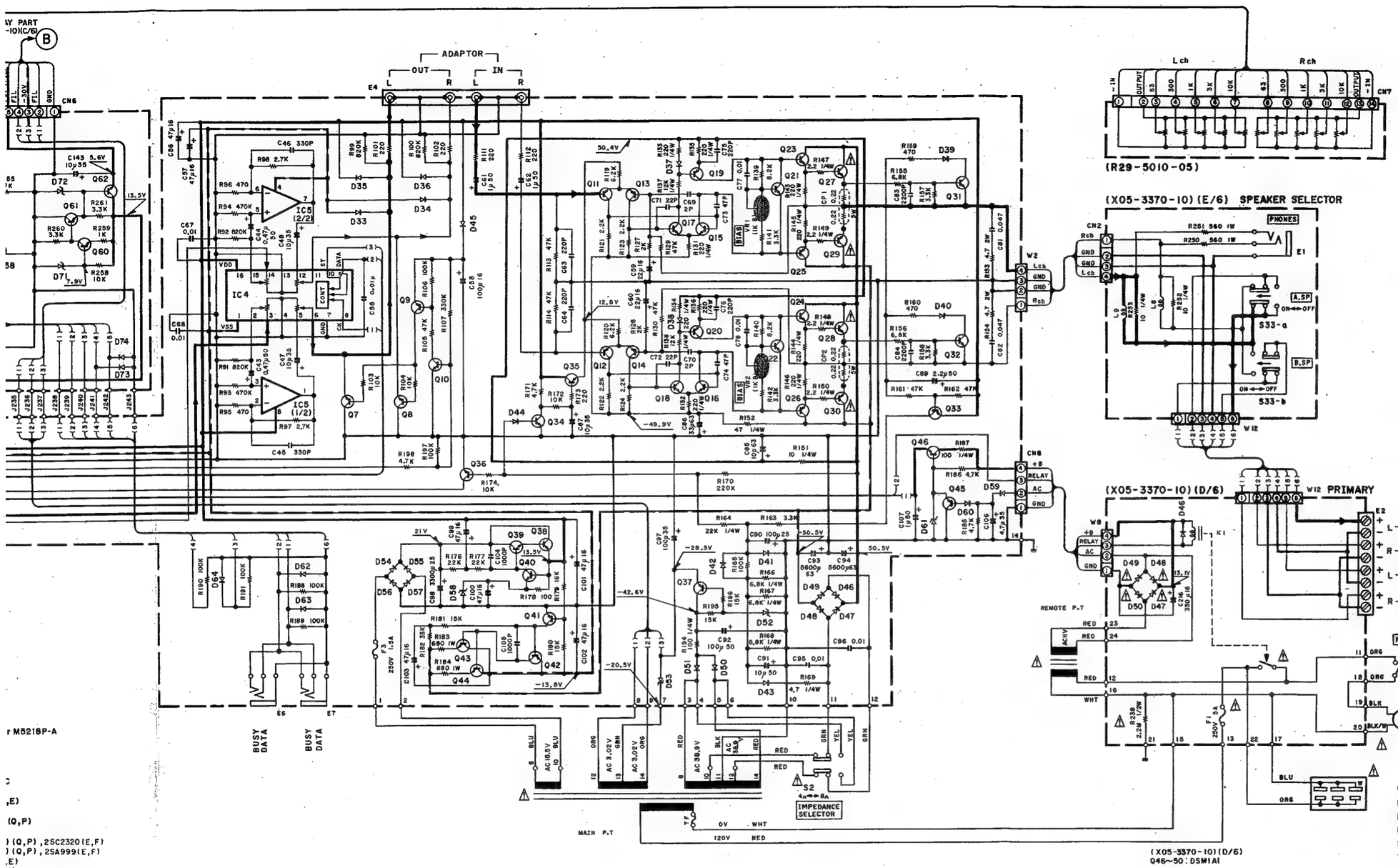
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être measurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

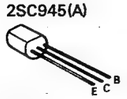


(X05-3370-10)

IC1	: LA1265	Q7	: 2SC2003(L,K)
IC2	: AN7470	Q8, 11, 12	: 2SA733(A)(Q,P)
IC3	: LM7001	Q9, 10	: 2SC1845(F,E)
IC4	: 7516HG-050-36		
IC5	: μPD7564CS-037	D1,4~6,8,10, 21~38	
IC6~10	: LB1294	40~44, 51~53	: 1SS133 or 1SS176
IC11	: TD6301AP	D2	: KV1236(Z2)
		D3	: RD6.8ES(B2) or HZS6.8N(B2)
Q1	: 2SC1923(R,O)	D39	: RD10ES(B) or HZS10N(B)
Q2~5	: 2SC945(A)(Q,P)	D45	: B30-0483-05
FL1	: FIP9AM24		

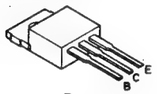


2SA733(A)
2SA992
2SA999
2SC1845
2SC1923
2SC2003
2SC2320
2SC2878
2SC945(A)



2SA1110
2SB772
2SC2590

2SC2167



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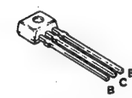
2SC3494



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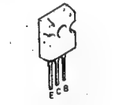
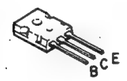
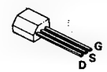


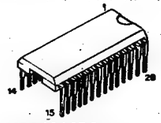
2SA1301*5
2SC3280*5



2SK439



TD6301AP



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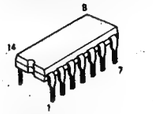
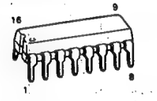


LB1294
LM7001



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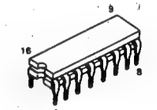
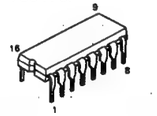
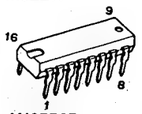


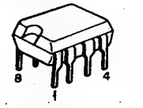
AN7470
TC9176P



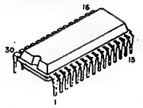
M5227P



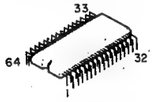
AN6556F
M5218P-A



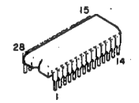
M50461-057SP



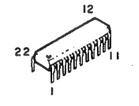
7516HG-050-36



TC9163N
TC9164N



LA1265



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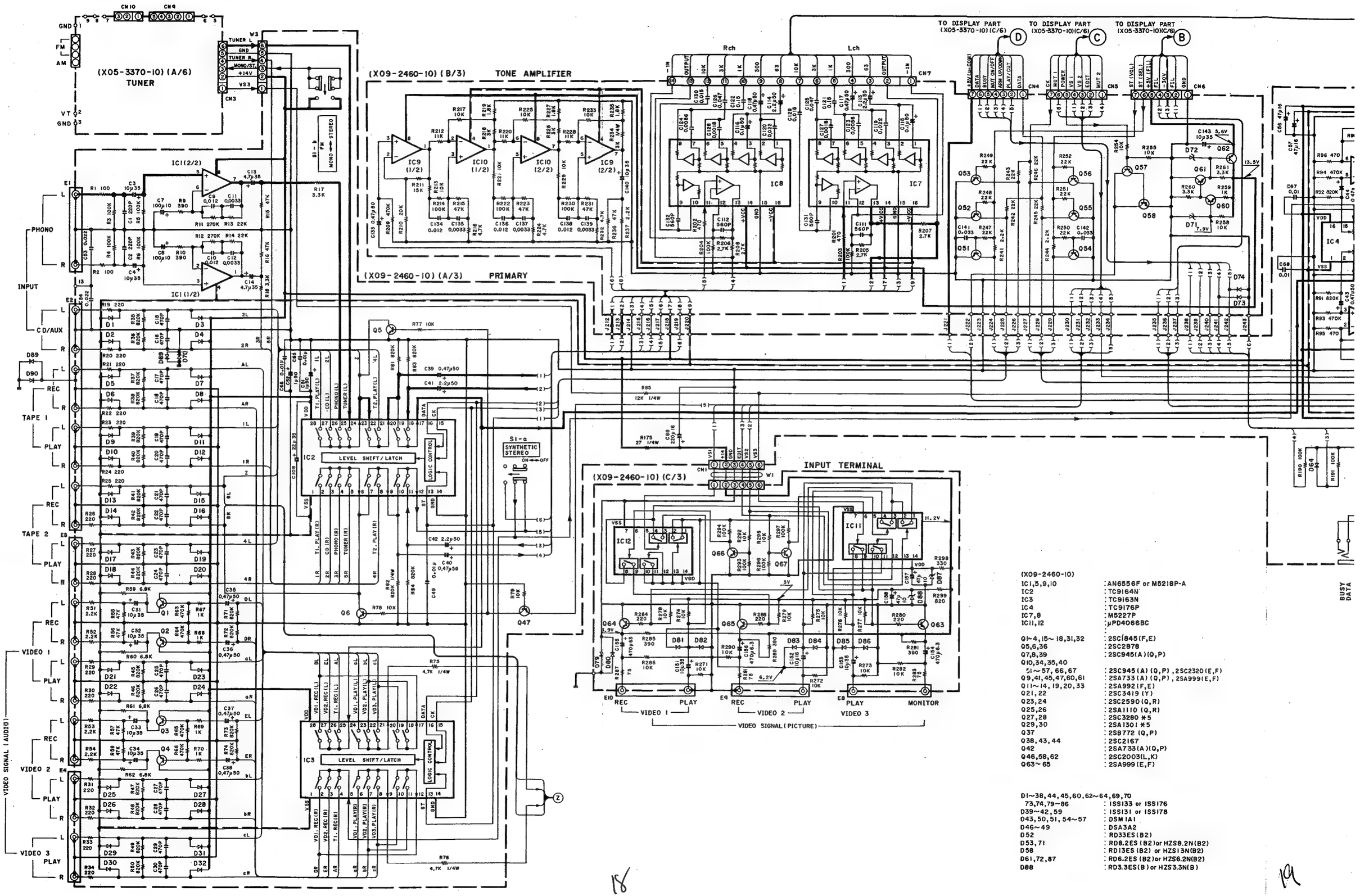
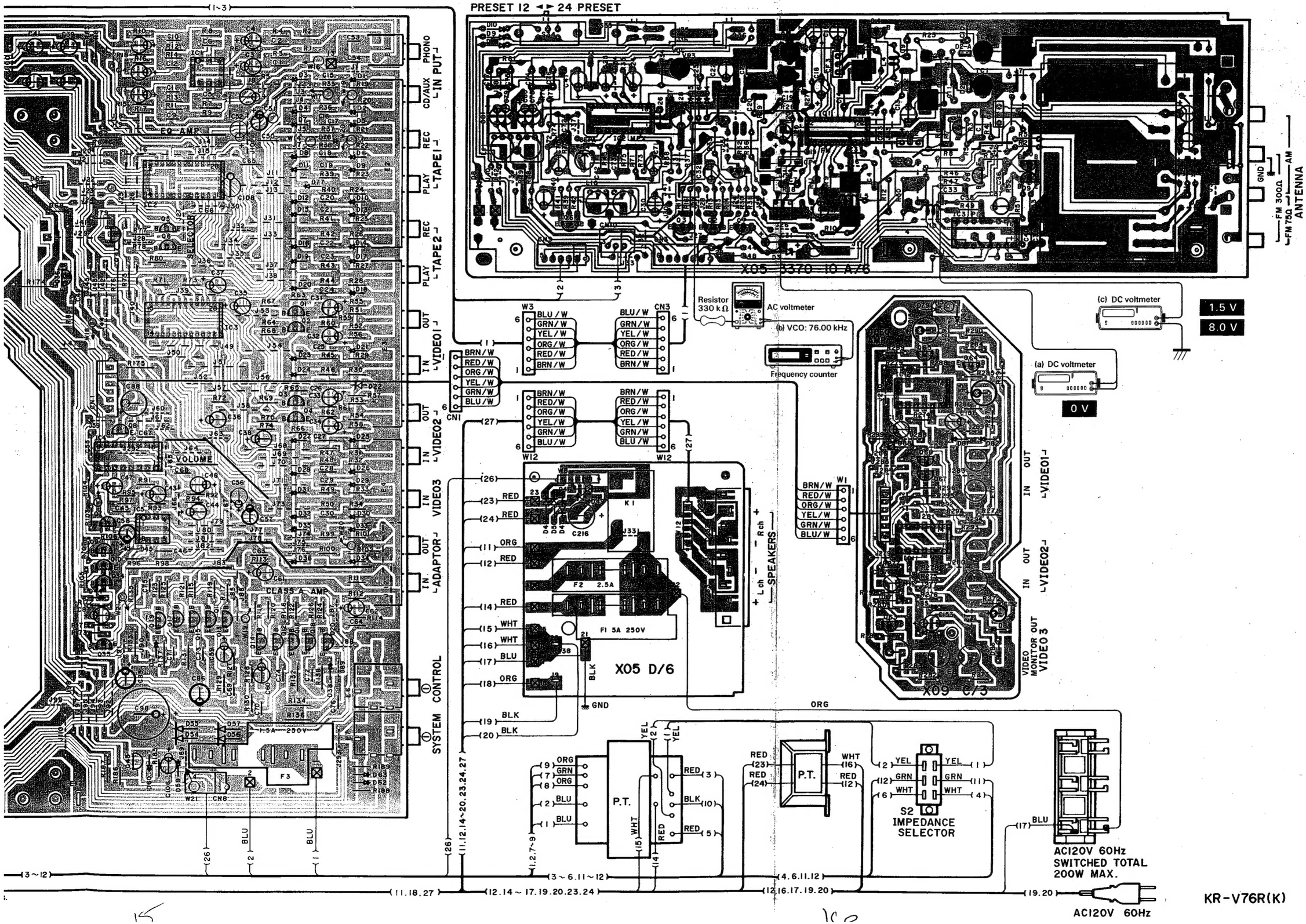


(X09-2460-10)

IC1,5,9,10	: AN6556F or M5218P-A
IC2	: TC9164N
IC3	: TC9163N
IC4	: TC9176P
IC7,8	: M5227P
IC11,12	: μPD4066BC
Q1~4,15~18,31,32	: 2SC1845(F,E)
Q5,6,36	: 2SC2878
Q7,8,39	: 2SC945(A)(Q,P)
Q10,34,35,40 51~57,66,67	: 2SC945(A)(Q,P),2SC2320(E,F)
Q9,41,45,47,60,61	: 2SA733(A)(Q,P),2SA999(E,F)
Q11~14,19,20,33	: 2SA992(F,E)
Q21,22	: 2SC3419(Y)
Q23,24	: 2SC2590(Q,R)
Q25,26	: 2SA1110(Q,R)
Q27,28	: 2SC3280 ×5
Q29,30	: 2SA1301 ×5
Q37	: 2SB772(Q,P)
Q38,43,44	: 2SC2167
Q42	: 2SA733(A)(Q,P)
Q46,58,62	: 2SC2003(L,K)
Q63~65	: 2SA999(E,F)

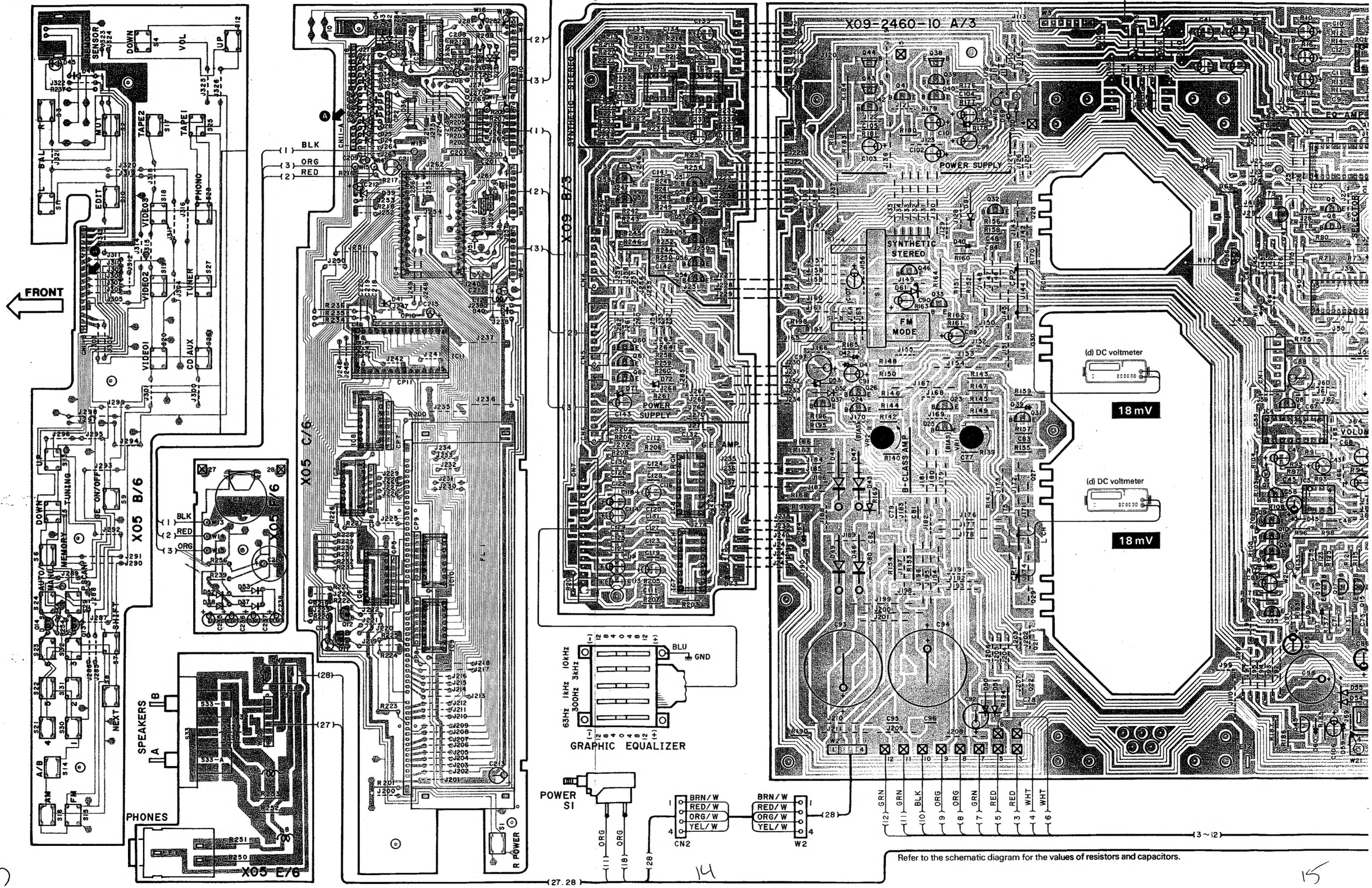
D1~38,44,45,60,62~64,69,70 73,74,79~86	: 1SS133 or 1SS176
D39~42,59	: 1SS131 or 1SS178
D43,50,51,54~57	: DSM1A1
D46~49	: DSA3A2
D52	: RD33ES(B2)
D53,71	: RD8.2ES(B2)or HZS8.2N(B2)
D58	: RD13ES(B2) or HZS13N(B2)
D61,72,87	: RD6.2ES(B2)or HZS6.2N(B2)
D88	: RD3.3ES(B)or HZS3.3N(B)

STATION NAME AND
PRESET 12 ◄► 24 PRESET

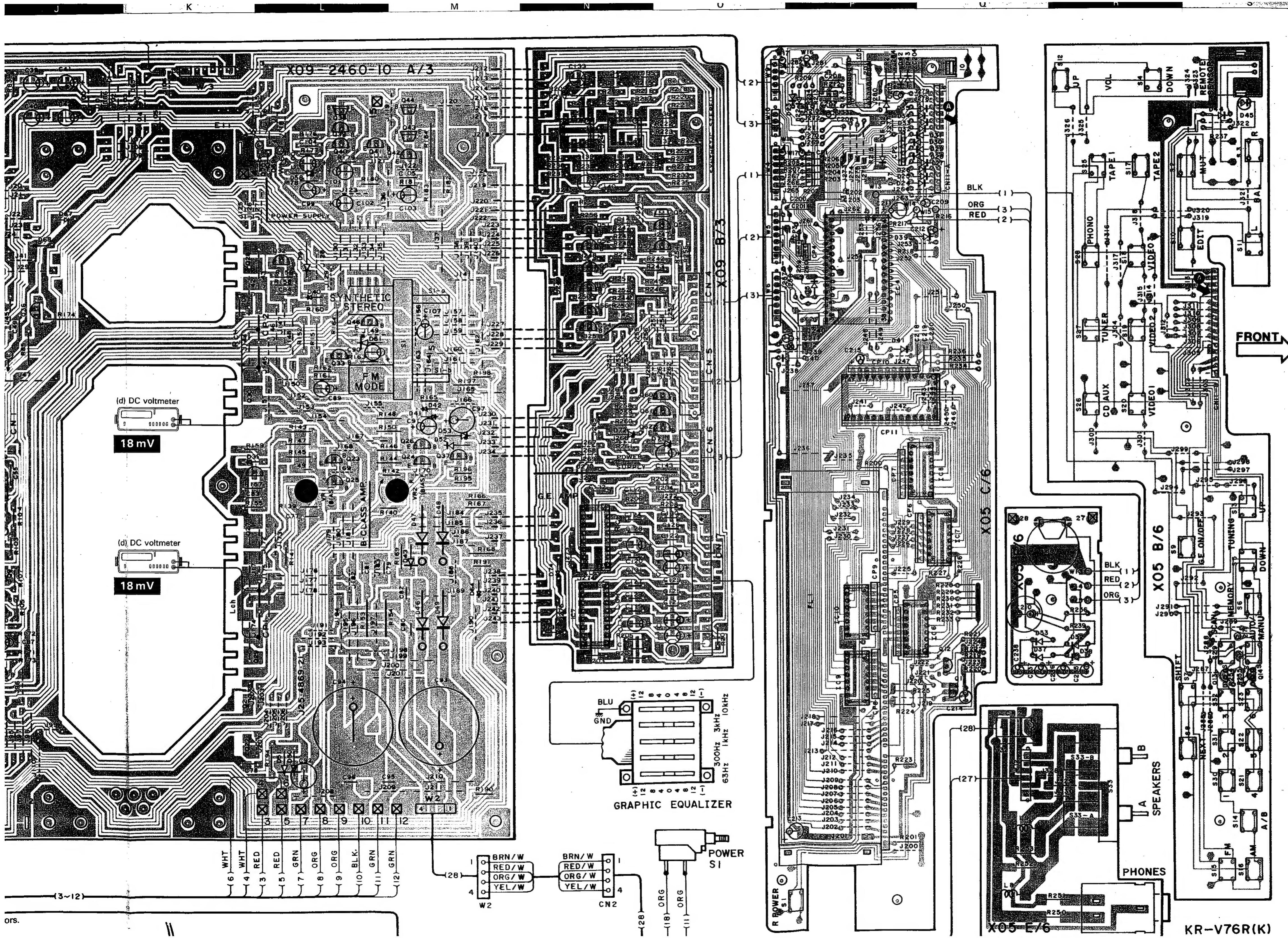


KR-V76R(K)

PC BOARD (Foil side view)



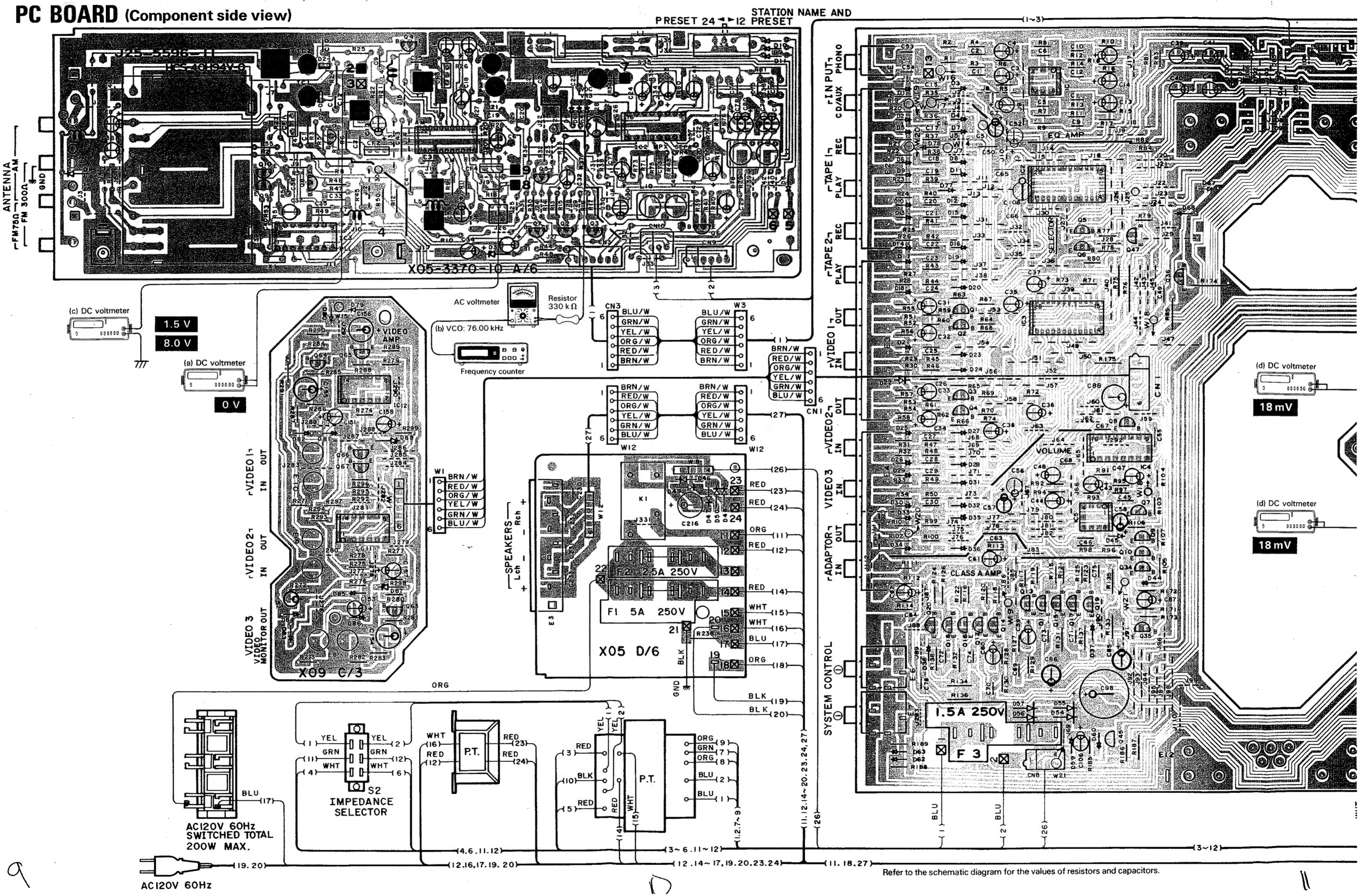
Refer to the schematic diagram for the values of resistors and capacitors.


X09-2460-10 A/3
X09 B/3
X05 C/6
X05 B/6
X05 E/6
POWER SUPPLY
SYNTHETIC STEREO
FM MODE
B CLASS AMP
G.E AMP
(d) DC voltmeter
18 mV
(d) DC voltmeter
18 mV
GRAPHIC EQUALIZER
BLU
GND
63Hz
300Hz
1kHz
3kHz
10kHz
POWER S1
SPEAKERS
PHONES
FRONT
PHONO
TUNER
CD AUX
VIDEO1
VIDEO2
VIDEO3
TAPE1
TAPE2
EDIT
MUT
BAL
UP
VOL
DOWN
REMOTE SENSOR
GE ON/OFF
TUNING
MEMORY
SHIFT
NEXT
AUTO MANU
A/B
FM
AM
BLK
ORG
RED
WHT
GRN
BRN/W
RED/W
ORG/W
YEL/W
W2
CN2
KR-V76R(K)

ors.

12

PC BOARD (Component side view)



Refer to the schematic diagram for the values of resistors and capacitors.